

A B S T R A C T

A SYSTEM FOR ASSISTING REGENERATION OF A STORAGE/RELEASE
NOx TRAP FOR A MOTOR VEHICLE DIESEL ENGINE

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A system for assisting regeneration of a
storage/release NOx trap integrated in an exhaust line
(5) of a motor vehicle diesel engine (4) is characterized
in that it comprises gas admission means for admitting
10 gas into the engine, means for injecting fuel (11) into
the cylinders thereof in the form of at least pilot and
main injections, and means for controlling (12) said gas
admission and/or fuel injection means for periodically
switching the engine (4) between a lean-mixture standard
15 operating mode in which NOx is stored in the trap (6) and
a rich-mixture regeneration operating mode, with at least
two pilot injections (1, 2) and one main injection (3),
in which NOx is released from the trap (6) and the trap
is regenerated.

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35 possibly after making changes, ex officio, e.g. under PCT Rules 37.2, 38.2, and/or
48.3.